

SCIENCE AND MECHANICS.

TO GENERATE ELECTRICITY CHEAPLY.

A THERMO-ELECTRIC BATTERY WHICH IS SAID TO BE AN IMPROVEMENT ON THE STEAM ENGINE AND DYNAMO.

When a plate of copper and a plate of zinc are immersed in an acid solution, so that they do not touch, and the circuit is completed by connecting them by a wire an electric current is immediately found to be flowing through the latter. Now, if the same plates, having been cleaned and dried, be united at their lower ends with solder, and the junction then be subjected to the influence of a thermo-electric couple, heat will produce the same effect, in kind, but not in degree, as chemical action does in the galvanic battery. Although this principle has been known for more than seventy years, it has not been extensively utilized. Its possible application has been known for more than seventy years, it has not been extensively utilized. Its possible application has been known for more than seventy years, it has not been extensively utilized.

In the Daniell apparatus, and in the other cells of zinc and copper, the zinc is oxidized and the copper is reduced. In the Daniell apparatus, and in the other cells of zinc and copper, the zinc is oxidized and the copper is reduced. In the Daniell apparatus, and in the other cells of zinc and copper, the zinc is oxidized and the copper is reduced.

Hitherto, however, the thermo-electric battery has not been considered an economical means of converting heat into electricity. It is, however, as played would not give the same results as if it were run by a steam engine, which in turn drove a dynamo. Nevertheless, as the Tribune has recently mentioned, even this latter plan involves an enormous waste of the energy stored in coal, and for nearly twenty years the loss has been occupying, if not entirely averting, this loss has been occupying, if not entirely averting, this loss has been occupying.

The attention of eminent scientists in Europe and America has been attracted to this subject. In Hartford, Conn., after years of experiment, has devised an electric generator, on the principle of Daniell's, but differing therefrom in important details, and yielding, as is claimed, a much greater output for the same fuel than the steam engine and dynamo. If the event fully justifies the assertion, an important revolution in the electrical industry is about to be effected. It is, however, as played would not give the same results as if it were run by a steam engine, which in turn drove a dynamo.

Precisely what metals he has subordinated to his ends is yet a secret. Both of the elements forming each couple, though, are said to be alloys. Wedges of these alloys are combined in a ring, pains being taken to avoid well-defined junctions, and to merge into each other the alloys of the other wedges come together. Several such rings may be used, one above another, but with asbestos sheets between. The cylinder, moreover, is lined with a fireproof plastic cement. A metallic casing incloses the cylinder, although insulated from it, and a current of water for cooling purposes, according to the inventor, is circulated to circulate between the metal casing and the outer shell of the generator. This is secured by an inextinguishable fire, in which you may burn fuel for a year without interruption. It is, however, as played would not give the same results as if it were run by a steam engine, which in turn drove a dynamo.

Months ago by the Commercial Cable Company, of which George G. Ward is vice-president and general manager, a small battery, which was said to be run by burning gas, was looked up and left alone, and during that time, Mr. Ward said, it worked his company's latest battery, which was said to be run by burning gas, was looked up and left alone, and during that time, Mr. Ward said, it worked his company's latest battery, which was said to be run by burning gas, was looked up and left alone.

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STRUGGLING WITH A MADMAN.

A CAR DRIVER BARELY PREVENTED FROM THROWING HIMSELF OUT OF A WINDOW.

Only the timely appearance of Policeman Joseph M. Gies prevented Joseph McCormick, a car driver employed by the Metropolitan Traction Company, from throwing himself Saturday night from the third-story window of the tenement-house in which he lives. McCormick, who is twenty-six years old, had twice before attempted suicide, but as he did not succeed in his first attempt, he had not been taken into custody. He was found by his brother John and his sister-in-law, at No. 15 Waverley Place. He went to bed as usual on Saturday night and seemed to be in good spirits. Early Sunday morning, however, John McCormick and his wife were awakened by a blood-curdling yell from their brother's room, and Joseph, in his own words, "dashed out of bed, and down the stairs shouting 'Save me, save me!'"

The brother and sister followed the crazy man, and half way down saw him stop at a window on the third floor. He was then seen to throw himself out of the window. He was then seen to throw himself out of the window. He was then seen to throw himself out of the window.

A DINNER FOR KNUCKERBROCK'S COUNCIL.

An enjoyable dinner was given for the members of Knickerbocker Council No. 572, Royal Arcanum, on Friday evening last, at the home of Mr. J. C. Ketchum, No. 41 West Twenty-first-st. The guests were: Captain Dyer and General Lewes, of the Royal Arcanum, Justin F. Price, of Brooklyn; Past Grand Regent H. H. Peck, of Brooklyn; Bellevue Hospital and placed in the hands of the American Legion of Honor, Regent W. H. Monahan, of Knickerbocker Council; and others. At 8 o'clock they adjourned to the council's new quarters at the Lexington Avenue Hotel, where a presentation was made to Regent Monahan of a past regent's jewel, presented to him by his long and faithful service to the council.

NOT REPRIMAND BY GENERAL McLEWEE.

The silly story which was industriously circulated last week to the effect that a corporal in the 12th Regiment had "talked back" to Inspector-General McLeewe last Monday when the General called his attention to his untidy and unsoldierly appearance, has given rise to much discussion. The story had been reported by a resident of Rochester, N. Y., and the apparatus is arranged in the ends of the car, and the various parts are portable, and pull out with handles. The apparatus is arranged in the ends of the car, and the various parts are portable, and pull out with handles. The apparatus is arranged in the ends of the car, and the various parts are portable, and pull out with handles.

AN IMPROVED REFRIGERATING CAR.

THE APPARATUS EASILY CLEANED-ABSORBING FOUL GASES WITH WATER.

The perishable character of meat and other merchandise shipped through the water routes nowadays makes necessary some sort of refrigerating devices for use in connection therewith. In an improved system of cooling freight cars, lately patented by a resident of Rochester, N. Y., the apparatus is arranged in the ends of the car, and the various parts are portable, and pull out with handles. The apparatus is arranged in the ends of the car, and the various parts are portable, and pull out with handles. The apparatus is arranged in the ends of the car, and the various parts are portable, and pull out with handles.

JOE'S HALF-JOINT CARRIAGE SHACKLE.

ANOTHER ATTEMPT TO OBTAIN NOISELESS, DURABLE, DIRT-PROOF COUPLING.

It is often desirable to detach from a light carriage a pair of shafts and substitute a pole. In a heavy stable, it is an advantage to be able to do this quickly. Then, too, whether one drives a single horse or a team, he does not want the connections between shafts or pole and the forward axle to rattle, get full of dirt or wear out quickly. Hence the need of a carriage shackle that may be instantly fastened and released with ease, that will not remain noisy, and that will stand hard usage. Builders and users of road vehicles are familiar with a variety of fastenings which do not possess all these qualities, and probably there is none in which which could not be improved upon. It is possible, therefore, that the half-joint shackle of C. E. Jones, just now of New-York city, may prove upon examination to be the best thing of its kind yet invented.

REAL ESTATE.

BUSINESS IN THE FIELD.

For the last week business has been somewhat restricted, as usual when people are contemplating their summer occupations. In commodities there has been wild speculation. In real estate, however, there has been no such speculation. The market has been quiet, and the price of real estate has been steady. The market has been quiet, and the price of real estate has been steady. The market has been quiet, and the price of real estate has been steady.

There will be several notable changes in some of the best-known office buildings in the lower part of the city. It is expected, during the summer, the owners of one of these large buildings, in Broadway near Wall-st., are now having their property, this making its height over twenty stories. The Tribune at present is not at liberty to give the name of the building. It is believed that the improvements to this property will add value as well as architectural attractiveness to adjoining property.

The frequent announcements that the Union Club, at Fifty-six and Twenty-third, was looking for a site for a new building, have come to nothing. The club has decided to build a new building, and the site has been secured. The club has decided to build a new building, and the site has been secured. The club has decided to build a new building, and the site has been secured.

There are some owners of real estate in the city who are not satisfied with the present state of affairs. They are looking for a new building, and the site has been secured. They are looking for a new building, and the site has been secured. They are looking for a new building, and the site has been secured.

The special hardware which enables operators to penetrate the best fireproof nickel-plated armor plate, largely due to the structure of the metal, which is composed of a chrome-steel plate, but foreign experts are talking of trying the experiment. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

Several uses for peat have recently been discovered in Holland. The fibre of red peat (which is usually found above the black peat) can be combed out and woven into cloth suitable for rugs, if not for garments. Black peat may be reduced to a fine powder, and used as a substitute for coal. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

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The function of a stereoscope is not merely to magnify a photograph, but to produce an illusion of reality. It is a device which allows the viewer to see two slightly different points of view, corresponding to the two eyes, and thus creates a three-dimensional effect. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

The apparatus of M. Cazes is partially represented herewith. There are two small and two large flat mirrors mounted so that the latter are parallel to the former. The large mirrors may be slid along the supporting bars, in order to adapt them to the varying requirements of their work. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

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THE PETROLEUM MARKET.

NEWS FROM THE FIELD AND RANGE OF PRICES.

The crude oil market showed a reaction last week, and the closing price was at \$1.60. There was no news from the field and efforts to develop new territory, while active, were not successful. Prices for refined oil at home and abroad were steady. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

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Co Let for Business Purposes.

A REDUCED RENT-Buildings, streets, lots and a fine lot on the corner of Broadway and 10th St.

Country Real Estate for Sale. FOR SALE, NEWBURN HURSTON, a fine country seat, about 12 acres, one mile north of New York city, with a fine view of the city, and a fine view of the city, and a fine view of the city. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

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Furnished Houses To Let—Country.

CONY, N. H.

TO LET, a furnished summer house of eight rooms, with a large porch, on the corner of Broadway and 10th St. The house is in a fine location, and is well furnished. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

Country Property To Let.

CAMP

NORTH GERMAN LLOYD S. S. CO.

MEDITERRANEAN SERVICE.

TO GIBRALTAR, GENOA.

Line of steamships, leaving New York for Gibraltar and Genoa. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

HAMBURG-AMERICAN LINE.

TWIN SCREW EXPRESS LINE.

TO LONDON AND HAMBURG.

Line of steamships, leaving New York for London and Hamburg. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

TO THE LAND OF THE MIDNIGHT SUN.

CRUISE TO NORWAY AND NORTH CAPE.

Line of steamships, leaving New York for Norway and North Cape. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

AMERICAN LINE.

NEW YORK TO LONDON VIA NEW YORK.

Line of steamships, leaving New York for London via New York. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

RED STAR LINE.

NEW YORK TO LONDON VIA NEW YORK.

Line of steamships, leaving New York for London via New York. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

R. H. MACY & CO.

JAPAN-CHINA.

Line of steamships, leaving New York for Japan and China. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

PACIFIC MAIL S. S. CO.

OCCIDENTAL AND ORIENTAL S. S. CO.

Line of steamships, leaving New York for the Pacific and the Orient. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

CANADIAN PACIFIC RAILWAY.

TO JAPAN AND CHINA.

Line of steamships, leaving New York for Japan and China. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

HOLLAND-INDIA AND AUSTRALIA.

Line of steamships, leaving New York for Holland, India and Australia. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

CLAYDE LINE.

Line of steamships, leaving New York for various ports. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

ANCHOR LINE—United States Mail Steamships.

Line of steamships, leaving New York for various ports. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

COOK'S TOURS.

Line of steamships, leaving New York for various ports. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

COMPAGNIE GENERALE Transatlantique.

Line of steamships, leaving New York for various ports. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

MALLORY STEAMSHIP LINES.

Line of steamships, leaving New York for various ports. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

NETHERLANDS LINE.

Line of steamships, leaving New York for various ports. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

OLD DOMINION LINE.

Line of steamships, leaving New York for various ports. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

RED "D" LINE OF STEAMERS.

Line of steamships, leaving New York for various ports. The same handling agent has been employed with aluminum, a very soft metal, and the result has been a failure.

Public Notices.

NOTICE OF SALE OF RAILROAD FRANCHISES.

NOTICE is hereby given that the franchises of the New York and Hudson River Railroad Company, and the franchises of the New York and Westchester Railroad Company, and the franchises of the New York and Albany Railroad Company, and the franchises of the New York and Saratoga Railroad Company, and the franchises of the New York and Troy Railroad Company, and the franchises of the New York and Poughkeepsie Railroad Company, and the franchises of the New York and Kingston Railroad Company, and the franchises of the New York and Catskill Railroad Company, and the franchises of the New York and Delaware and Dutchess Railroad Company, and the franchises of the New York and Sullivan Railroad Company, and the franchises of the New York and Ulster Railroad Company, and the franchises of the New York and Warren Railroad Company, and the franchises of the New York and Rensselaer Railroad Company, and the franchises of the New York and Schoharie Railroad Company, and the franchises of the New York 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